

Remarks

Claims 1-16 are pending and at issue in the present application.

The independent claims 1 and 8 have been amended in order to emphasize the feature of the invention that the *linearization training sequence is included in a sequence of symbols that is also further designed to allow the adjusting of at least one parameter of a radiofrequency receiver of a second equipment of the radiocommunication system with which said first item of equipment communicates.*" (emphasis added)

It is respectfully requested that the above cited claim amendment be entered and considered by the Examiner.

The Examiner has objected to claims 2 and 5 as being informal. It is believed the Examiner meant to object to claims 12 and 5 as these are the claims discussed. This objection has been obviated by the foregoing amendments and should be withdrawn.

Rejection under 35 U.S.C. § 103 (Obviousness)

Claims 1, 3, 4, 8, 10, 11, 15 and 16 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 7,203,247 to *Bauder* in view of U.S. Patent No. 7,016,431 to *Schrader*.

Claims 2 and 9 were rejected under 35 U.S.C. § 103(a) as being unpatentable over *Bauder* in view of *Schrader* and further in view of U.S. Patent Application No. US 2002/0186796 to *McFarland et al.*

Claims 5, 6, 12 and 13 were rejected under 35 U.S.C. § 103(a) as being unpatentable over *Bauder* in view of *Schrader* and further in view of U.S. Patent No. 6,320,919 to *Khayrallah et al.*

Withdrawal of these rejections is respectfully requested in view of the above amendments to the claims, and in light of the remarks below.

Independent Claims 1 and 8 as amended recite that a training sequence which is designed and useable to allow training of a linearization device a radiofrequency amplifier which is included within a radiofrequency transmitter of a first radiocommunication equipment, is transmitted within a

sequence of symbols that is further designed and also usable to allow adjusting of at least one parameter of a radiofrequency receiver of a second radiocommunication equipment with which said first item of equipment communicates.

Stated otherwise, the training sequence carries out two functions at the same time, namely, when it is sent by the transmitter to the receiver. As such, it is a training sequence for training the linearization device of the transmitter. In addition, as part of the sequence of symbols in which it is included, it permits the setting of at least one parameter of the receiver.

Bauder generally relates to the linearization of a power amplifier of a transmitter, and admittedly discloses a "training" mode of operation, in which a training sequence is sent by the transmitter. However, *Bauder* fails to disclose or even suggest that such training sequence may also carry out another function when it is transmitted to a receiver. The secondary document *Schrader* also does not disclose or suggest this feature. Therefore, the combination of documents does not disclose all elements of claims 1 and 8.

The Applicants do neither contest the statement by the Examiner in Section 5 of the Office Action, that *McFarland* discloses a variable gain amplifier (VGA) 214 and the gain control unit 220 (Fig. 2). However, there is no support, in *Bauder*, in *Schrader* and in *McFarland*, or in any other cited document, for the Examiner's assertion formulated in Section 5 of the Office action, that *Bauder's* "sequence of symbols" could contain *both* a linearization sequence *as well as* an automatic gain control sequence. Moreover, even if this was the case, which it is not actually as mentioned just above, it would remain to show that it would have been obvious to the one with ordinary skills in the art to have the *same symbols*, namely those of the training sequence, designed and used for allowing both linearization of the power amplifier of the transmitter *and* control of the gain of the VGA of the receiver *at the same time*, namely when they are once transmitted by the transmitter to the receiver.

Therefore, it is believed that the rejection of claims 1 and 8 under 35 U.S.C. § 103 should be withdrawn. Furthermore, the remaining claims 2-7 and 9-16 are allowable based at least upon the reasons discussed above in conjunction with claims 1 and 8 respectively, and also based on the further recitations contained therein.

Summary

In light of the above amendments and remarks, Applicants respectfully submit that, overall,

given the above amendments and accompanying remarks, none of the references singly or in any motivated combination disclose, teach, or suggest what is recited in the independent claims. The dependent claims that depend directly or indirectly on these independent claims are likewise allowable based on at least the same reasons and based on the recitations contained in each dependent claim.

Therefore, all of the claims pending in the application are now clearly allowable. Favorable reconsideration and a Notice of Allowance are earnestly solicited.

If the undersigned attorney has overlooked a teaching in any of the cited references that is relevant to the allowability of the claims, the Examiner is requested to specifically point out where such teaching may be found. Further, if there are any informalities or questions that can be addressed via telephone, the Examiner is encouraged to contact the undersigned attorney at (312) 263-4700.


Reconsideration and allowance of the foregoing claims are respectfully requested.

Deposit Account Authorization

The Commissioner is hereby authorized to charge any deficiency in any amount enclosed or any additional fees, which may be required during the pendency of this application under 37 CFR 1.16 or 1.17, except issue fees, to Deposit Account No. 50-1903.

Respectfully submitted,

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